

SEQUENCE LISTING

<110> Margolis, David M.
 Romerio, Fabio
 Coull, Jason J.

<120> HIV TRANSCRIPTION REPRESSOR COMPLEX AND COMPOSITIONS AND METHODS
 BASED THEREON

<130> 5470-451

<140> US 09/611,949
 <141> 2000-07-06

<150> PCT/US98/00574
 <151> 1998-01-13

<150> US 60/036,242
 <151> 1997-01-23

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<170> PatentIn version 3.3

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Met Ala Ser Gly Asp Thr Leu Tyr Ile Ala Thr Asp Gly Ser Glu Met	
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Pro Ala Glu Ile Val Glu Leu His Glu Ile Glu Val Glu Thr Ile Pro	
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Val Glu Thr Ile Glu Thr Thr Val Val Gly Glu Glu Glu Glu Glu Asp	
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Asp Asp Asp Glu Asp Gly Gly Gly Gly Asp His Gly Gly Gly Gly Gly	
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cac ggg cac gcc ggc cac cac cac cac cac cat cac cac cac cac cac	480
His Gly His Ala Gly His His His His His His His His His His His	
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Pro Pro Met Ile Ala Leu Gln Pro Leu Val Thr Asp Asp Pro Thr Gln	
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Val His His His Gln Glu Val Ile Leu Val Gln Thr Arg Glu Glu Val	
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Asp Gln Ile Leu Ile Pro Val Pro Ala Pro Ala Gly Gly Asp Asp Asp	
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Tyr Ile Glu Gln Thr Leu Val Thr Val Ala Ala Ala Gly Lys Ser Gly	
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Gly Gly Gly Ser Ser Ser Ser Gly Gly Gly Arg Val Lys Lys Gly Gly	
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Gly Lys Lys Ser Gly Lys Lys Ser Tyr Leu Ser Gly Gly Ala Gly Ala	
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Gln Val Gln Ile Lys Thr Leu Glu Gly Glu Phe Ser Val Thr Met Trp	
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Ser Ser Asp Glu Lys Lys Asp Ile Asp His Glu Thr Val Val Glu Glu	
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Gln Ile Ile Gly Glu Asn Ser Pro Pro Asp Tyr Ser Glu Tyr Met Thr	
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gga aag aaa ctt cct cct gga gga ata cct ggc att gac ctc tca gat	1056
Gly Lys Lys Leu Pro Pro Gly Gly Ile Pro Gly Ile Asp Leu Ser Asp	
260 265 270	
ccc aaa caa ctg gca gaa ttt gct aga atg aag cca aga aaa att aaa	1104
Pro Lys Gln Leu Ala Glu Phe Ala Arg Met Lys Pro Arg Lys Ile Lys	
275 280 285	
gaa gat gat gct cca aga aca ata gct tgc cct cat aaa ggc tgc aca	1152
Glu Asp Asp Ala Pro Arg Thr Ile Ala Cys Pro His Lys Gly Cys Thr	
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Lys Met Phe Arg Asp Asn Ser Ala Met Arg Lys His Leu His Thr His	
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Gly Pro Arg Val His Val Cys Ala Glu Cys Gly Lys Ala Phe Val Glu	
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Phe Gln Cys Thr Phe Glu Gly Cys Gly Lys Arg Phe Ser Leu Asp Phe	
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Asn Leu Arg Thr His Val Arg Ile His Thr Gly Asp Arg Pro Tyr Val	
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Cys Pro Phe Asp Gly Cys Asn Lys Lys Phe Ala Gln Ser Thr Asn Leu	
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Lys Ser His Ile Leu Thr His Ala Lys Ala Lys Asn Asn Gln	
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cacacctaag ggacatgttt tgataaagta gtaaaaaatta aaaaaaaaaa actttactaa	1662
gatgacattg ctaagatgct ctatcttgct ctgtaatctc gtttcaaaaa cacagtgttt	1722
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20          25          30

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Asp Asp Asp Glu Asp Gly Gly Gly Gly Asp His Gly Gly Gly Gly Gly
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His Gly His Ala Gly His His His His His His His His His His His
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Pro Pro Met Ile Ala Leu Gln Pro Leu Val Thr Asp Asp Pro Thr Gln
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Val His His His Gln Glu Val Ile Leu Val Gln Thr Arg Glu Glu Val
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Asp Gln Ile Leu Ile Pro Val Pro Ala Pro Ala Gly Gly Asp Asp Asp
 130 135 140

Tyr Ile Glu Gln Thr Leu Val Thr Val Ala Ala Ala Gly Lys Ser Gly
 145 150 155 160

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 165 170 175

Gly Lys Lys Ser Gly Lys Lys Ser Tyr Leu Ser Gly Gly Ala Gly Ala
 180 185 190

Ala Gly Gly Arg Gly Ala Asp Pro Gly Asn Lys Lys Trp Glu Gln Lys
 195 200 205

Gln Val Gln Ile Lys Thr Leu Glu Gly Glu Phe Ser Val Thr Met Trp
 210 215 220

Ser Ser Asp Glu Lys Lys Asp Ile Asp His Glu Thr Val Val Glu Glu
 225 230 235 240

Gln Ile Ile Gly Glu Asn Ser Pro Pro Asp Tyr Ser Glu Tyr Met Thr
 245 250 255

Gly Lys Lys Leu Pro Pro Gly Gly Ile Pro Gly Ile Asp Leu Ser Asp
 260 265 270

Pro Lys Gln Leu Ala Glu Phe Ala Arg Met Lys Pro Arg Lys Ile Lys
 275 280 285

Glu Asp Asp Ala Pro Arg Thr Ile Ala Cys Pro His Lys Gly Cys Thr
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Lys Met Phe Arg Asp Asn Ser Ala Met Arg Lys His Leu His Thr His
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 325 330 335

Ser Ser Lys Leu Lys Arg His Gln Leu Val His Thr Gly Glu Lys Pro

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Asn Leu Arg Thr His Val Arg Ile His Thr Gly Asp Arg Pro Tyr Val		
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 cct ctg gcc gac gaa gtg att gaa tcc ggg ttg gtg cag gac ttt gat 760

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Ala	Ser	Leu	Ser	Gly	Ile	Gly	Gln	Glu	Leu	Gly	Ala	Gly	Ala	Tyr	Ser	
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Leu	Pro	Pro	Asp	Asn	Glu	Asn	Lys	Ile	Leu	Pro	Phe	Gln	Tyr	Val	Leu	
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Cys	Ala	Ala	Thr	Ser	Pro	Ala	Val	Lys	Leu	His	Asp	Glu	Thr	Leu	Thr	
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Tyr	Leu	Asn	Gln	Gly	Gln	Ser	Tyr	Glu	Ile	Arg	Met	Leu	Asp	Asn	Arg	
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Phe	Arg	Val	Val	Phe	His	Asp	Arg	Arg	Leu	Gln	Tyr	Thr	Glu	His	Gln	
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Gln	Leu	Glu	Gly	Trp	Arg	Trp	Asn	Arg	Pro	Gly	Asp	Arg	Ile	Leu	Asp	
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ata	gat	atc	ccg	atg	tct	gtg	ggg	ata	atc	gat	cct	agg	gct	aat	cca	1192
Ile	Asp	Ile	Pro	Met	Ser	Val	Gly	Ile	Ile	Asp	Pro	Arg	Ala	Asn	Pro	
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act	caa	cta	aat	aca	gtg	gag	ttc	ctg	tgg	gac	cct	gca	aag	agg	aca	1240
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Ser	Val	Phe	Ile	Gln	Val	His	Cys	Ile	Ser	Thr	Glu	Phe	Thr	Met	Arg	
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Lys	His	Gly	Gly	Glu	Lys	Gly	Val	Pro	Phe	Arg	Val	Gln	Ile	Asp	Thr	
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Phe	Lys	Glu	Asn	Glu	Asn	Gly	Glu	Tyr	Thr	Glu	His	Leu	His	Ser	Ala	
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aca atg aaa cag gaa acc aat gat agc tat cat atc ata ctg aag 2197
 Thr Met Lys Gln Glu Thr Asn Asp Ser Tyr His Ile Ile Leu Lys
 490 495 500

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Phe Lys Gln Glu Glu Ser Ser Leu Pro Pro Asp Asn Glu Asn Lys Ile
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Leu Pro Phe Gln Tyr Val Leu Cys Ala Ala Thr Ser Pro Ala Val Lys
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Leu His Asp Glu Thr Leu Thr Tyr Leu Asn Gln Gly Gln Ser Tyr Glu
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Ile Arg Met Leu Asp Asn Arg Lys Leu Gly Glu Leu Pro Glu Ile Asn
 100 105 110

Gly Lys Leu Val Lys Ser Ile Phe Arg Val Val Phe His Asp Arg Arg
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Leu Gln Tyr Thr Glu His Gln Gln Leu Glu Gly Trp Arg Trp Asn Arg
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Pro Gly Asp Arg Ile Leu Asp Ile Asp Ile Pro Met Ser Val Gly Ile
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Trp Asp Pro Ala Lys Arg Thr Ser Val Phe Ile Gln Val His Cys Ile
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Ser Thr Glu Phe Thr Met Arg Lys His Gly Gly Glu Lys Gly Val Pro
 195 200 205

Phe Arg Val Gln Ile Asp Thr Phe Lys Glu Asn Glu Asn Gly Glu Tyr
 210 215 220

Thr Glu His Leu His Ser Ala Ser Cys Gln Ile Lys Val Phe Lys Pro
 225 230 235 240

Lys Gly Ala Asp Arg Lys Gln Lys Thr Asp Arg Glu Lys Met Glu Lys
 245 250 255

Arg Thr Pro His Glu Lys Glu Lys Tyr Gln Pro Ser Tyr Glu Thr Thr
 260 265 270

Ile Leu Thr Glu Cys Ser Pro Trp Pro Glu Ile Thr Tyr Val Asn Asn
 275 280 285

Ser Pro Ser Pro Gly Phe Asn Ser Ser His Ser Ser Phe Ser Leu Gly
 290 295 300

Glu Gly Asn Gly Ser Pro Asn His Gln Pro Glu Pro Pro Pro Pro Val
 305 310 315 320

Thr Asp Asn Leu Leu Pro Thr Thr Thr Pro Gln Glu Ala Gln Gln Trp
 325 330 335

Leu His Arg Asn Arg Phe Ser Thr Phe Thr Arg Leu Phe Thr Asn Phe
 340 345 350

Ser Gly Ala Asp Leu Leu Lys Leu Thr Arg Asp Asp Val Ile Gln Ile

355 360 365
 Cys Gly Pro Ala Asp Gly Ile Arg Leu Phe Asn Ala Leu Lys Gly Arg
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 Met Val Arg Pro Arg Leu Thr Ile Tyr Val Cys Gln Glu Ser Leu Gln
 385 390 395 400
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 405 410 415
 Asp Gly Asp Ser Asn Gly Thr Phe Phe Val Tyr His Ala Ile Tyr Leu
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 Glu Glu Leu Thr Ala Val Glu Leu Thr Glu Lys Ile Ala Gln Leu Phe
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 Gly Ile His Val Leu Ile Ser Asp Glu Met Ile Gln Asn Phe Gln Glu
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 35 40 45

Arg Lys Met Glu Ile Tyr Arg Pro His Lys Ala Asn Ala Glu Glu Met
 50 55 60

Thr Lys Tyr His Ser Asp Asp Tyr Ile Lys Phe Leu Arg Ser Ile Arg
 65 70 75 80

Pro Asp Asn Met Ser Glu Tyr Ser Lys Gln Met Gln Arg Phe Asn Val
 85 90 95

Gly Glu Asp Cys Pro Val Phe Asp Gly Leu Phe Glu Phe Cys Gln Leu
 100 105 110

Ser Thr Gly Gly Ser Val Ala Ser Ala Val Lys Leu Asn Lys Gln Gln
 115 120 125

Thr Asp Ile Ala Val Asn Trp Ala Gly Gly Leu His His Ala Lys Lys
 130 135 140

Ser Glu Ala Ser Gly Phe Cys Tyr Val Asn Asp Ile Val Leu Ala Ile
 145 150 155 160

Leu Glu Leu Leu Lys Tyr His Gln Arg Val Leu Tyr Ile Asp Ile Asp
 165 170 175

Ile His His Gly Asp Gly Val Glu Glu Ala Phe Tyr Thr Thr Asp Arg
 180 185 190

Val Met Thr Val Ser Phe His Lys Tyr Gly Glu Tyr Phe Pro Gly Thr
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Gly Asp Leu Arg Asp Ile Gly Ala Gly Lys Gly Lys Tyr Tyr Ala Val
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Asn Tyr Pro Leu Arg Asp Gly Ile Asp Asp Glu Ser Tyr Glu Ala Ile
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Phe Lys Pro Val Met Ser Lys Val Met Glu Met Phe Gln Pro Ser Ala
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Val Val Leu Gln Cys Gly Ser Asp Ser Leu Ser Gly Asp Arg Leu Gly
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Cys Phe Asn Leu Thr Ile Lys Gly His Ala Lys Cys Val Glu Phe Val
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Lys Ser Phe Asn Leu Pro Met Leu Met Leu Gly Gly Gly Tyr Thr
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Ile Arg Asn Val Ala Arg Cys Arg Thr Tyr Glu Thr Ala Val Ala Leu
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Asp Thr Glu Ile Pro Asn Glu Leu Pro Tyr Asn Asp Tyr Phe Glu Tyr
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Phe Gly Pro Asp Phe Lys Leu His Ile Ser Pro Ser Asn Met Thr Asn
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Gln Asn Thr Asn Glu Tyr Leu Glu Lys Ile Lys Gln Arg Leu Phe Glu
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Asn Leu Arg Met Leu Pro His Ala Pro Gly Val Gln Met Gln Ala Ile
 370 375 380

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Asn Ser Ser Asn Phe Lys Lys Ala Lys Arg Val Lys Thr Glu Asp Glu
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